LISTING AND AMENDMENTS TO THE CLAIMS

This listing of claims will **r** place all prior versions, and listings, of claims in the application.

What is claimed is:

- 1. (currently amended) A radiation diversity antenna eensisting ef-comprising a radiating element of the slot-line type coupled electromagnetically to a feed line, wherein the radiating element consists of arms in a tree structure, each arm having a length equal to $k\lambda s/2$ where k is an identical or different-integer from one arm to the next-and λs is the guided wavelength in the slot-line constituting the arm, at least one of the arms comprising a switching means positioned in the slot-line constituting the said arm in such a way as to control the coupling between the arm and the feed line (6) as a function of a command.
- 2. (original) The antenna of claim 1, wherein each arm comprises a switching means.
- 3. (original) The antenna of claim 1, wherein the switching means is positioned in an open-circuit zone of the slot.
- 4. (original) The antenna of claim 2, wherein the switching means is positioned in an open-circuit zone of the slot.
- 5. (original) The antenna of claim 1, wherein the switching means consists of a diode, a transistor arranged as a diode or an MEMS (Micro Electro Mechanical System).
- 6. (original) The antenna of claim 1, wherein each arm has a length which is delimited by an insert positioned in a short-circuit plane.

- 7. (original) The antenna of claim 5, wherein the insert is placed at the level of the junctions between arms.
- 8. (original) The antenna of claim 1, wherein the tree structure has an H or Y shape or one which is an association of these shapes.
- 9. (original) The antenna of claim 1, wherein the antenna is produced by microstrip technology or by coplanar technology.
- 10. (original) The antenna of claim 1, wherein the length of the slot-lines is chosen so as to produce frequency diversity.
- 11. (new) An antenna comprising:
 a substrate having a first side and a second side;
 a first conductive layer disposed on said first side of said substrate;
- a plurality of radiating elements etched into said first conductive layer, each of said plurality of radiating elements;
- a feed line disposed on said second side of said substrate such that said feed line electromagnetically couples to at least one of said plurality of radiating elements; and
- a switching means coupled into at least one of said plurality of radiating elements to control the electromagnetic coupling between said feed line and said radiating element.
- 12. (new) The antenna of claim 11 wherein each of said plurality of radiating elements has a length equal to an integer multiple of the quided wavelength of said radiating element.
- 13. (new) The antenna of claim 11 wherein said plurality of radiating elements comprises 5 radiating elements forming an H pattern.

- 14. (new) The antenna of claim 11 wherein each of said plurality of radiating elements compris s a switching means.
- 15. (new) The antenna of claim 11 wherein said switching means is positions in an open-circuit zone of the slot.
- 16. (new) The antenna of claim 11 wherein the switching means comprises a diode.
- 17. (new) The antenna of claim 11 wherein the switching means comprises a transistor.

16. (new) The antenna of claim 11 wherein the switching means comprises a micro electro mechanical system.

18. (new) The antenna of claim 11 wherein each of said plurality of radiating elements has a length which is delimited by an insert positioned in a short circuit plane.

(new) The antenna of claim 11 wherein the length of each of said plurality of radiating elements is chosen as to produce frequency diversity.

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